

WBS No: 1DAC01
Activity ID: 1DC0110010

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1DAC
Activity Filter *

Starts In FY *

WBS No: 1DAC01 Title: B776/777 SNM Holdup Removal
Activity ID: 1DC0110010 Description: B776/777 PA Closure FY00

Cost Risk 2 Schedule Risk 3

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
C01	Modification Packages	3.00	Mod Pkgs	HC	127	382	12.638	11.335	0	23.974	6.141	30.115
P01	IWCP Implementation (Davis Bacon Covered)	2.00	IWCP Pkgs	HC	1,205	2,411	81.559	10.000	0	91.559	39.633	131.192
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	1.530	1.530	0	1.530
Total for Activity 1DC0110010:						2,793	94.197	21.335	1.530	117.063	45.774	162.837

Line Item C01 - Modification Packages

BOE
Historical Data Source - The historical data is from the FY98 actual costs for technical support activity. These costs have been factored to the line item level based on FY99 line item to total technical support quotients. The detailed factoring spreadsheet can be found in B776/777 FY99 Project Summary Document - Rev 0.

Item Desc - Repairs to VSS/Non-VSS systems that cannot be accomplished using a standard work package (SWP). This work requires engineering review example: Work requiring breach of Zone 1 containment. (each)

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	C211S	Electrical Maintenance	Linear	26.64	Hours
Factors	36 Hours	0.74	January 2000 Earned Value Factor					
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	C211S	Electrical Maintenance	Linear	1.60	Hours
Factors	2.16 Hours	0.74	January 2000 Earned Value Factor					
751	OVERTIME BASE & PRE.	E050	ENVIRONMENTAL ENGINEERS	K399S	Building 776 Project	Linear	0.37	Hours
Factors	0.5 Hours	0.74	January 2000 Earned Value Factor					
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	K399S	Building 776 Project	Linear	3.70	Hours
Factors	5 Hours	0.74	January 2000 Earned Value Factor					
751	OVERTIME BASE & PRE.	P030	BUYERS PROCUREMENT AND CON	C210S	Facilities Mgmt & Maintenance	Linear	4.44	Hours
Factors	6 Hours	0.74	January 2000 Earned Value Factor					
751	OVERTIME BASE & PRE.	P030	BUYERS PROCUREMENT AND CON	C210S	Facilities Mgmt & Maintenance	Linear	0.27	Hours
Factors	0.36 Hours	0.74	January 2000 Earned Value Factor					
751	OVERTIME BASE & PRE.	P170	OTHER ADMINISTRATIVE & PROFE	C210S	Facilities Mgmt & Maintenance	Linear	1.48	Hours
Factors	2 Hours	0.74	January 2000 Earned Value Factor					
751	OVERTIME BASE & PRE.	P170	OTHER ADMINISTRATIVE & PROFE	C210S	Facilities Mgmt & Maintenance	Linear	0.09	Hours
Factors	0.12 Hours	0.74	January 2000 Earned Value Factor					
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KD10H	776 Complex Steelworkers	Linear	9.28	Hours
Factors	12.539 Hours - Conversion to OT	0.74	January 2000 Earned Value Factor					
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KD10H	776 Complex Steelworkers	Linear	1.78	Hours
Factors	2.4 Hours	0.74	January 2000 Earned Value Factor					
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	13.32	Hours
Factors	18 Hours	0.74	January 2000 Earned Value Factor					
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	13.32	Hours
Factors	18 Hours	0.74	January 2000 Earned Value Factor					
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	0.80	Hours
Factors	1.08 Hours	0.74	January 2000 Earned Value Factor					
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	6.66	Hours
Factors	9 Hours	0.74	January 2000 Earned Value Factor					
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	0.80	Hours
Factors	1.08 Hours	0.74	January 2000 Earned Value Factor					
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	26.64	Hours
Factors	36 Hours	0.74	January 2000 Earned Value Factor					
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	13.32	Hours
Factors	18 Hours	0.74	January 2000 Earned Value Factor					
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	1.60	Hours
Factors	2.16 Hours	0.74	January 2000 Earned Value Factor					

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751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	0.41	Hours
Factors	0.56	Hours	0.74	January 2000 Earned Value Factor				
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	0.80	Hours
Factors	1.08	Hours	0.74	January 2000 Earned Value Factor				
A57	LATA	E110	QUALITY CONTROL ENGINEERS	K399S	Building 776 Project	Linear	355.20	Dollars
Factors	480	Dollars	0.74	January 2000 Earned Value Factor				
A57	LATA	P070	COST ESTIMATORS PLANNERS AN	K399S	Building 776 Project	Linear	1,882.56	Dollars
Factors	2544	Dollars	0.74	January 2000 Earned Value Factor				
A5C	SUPPLIES	0000	NONE	K399S	Building 776 Project	Linear	1,540.68	Dollars
Factors	2082	Dollars	0.74	January 2000 Earned Value Factor				

Line Item P01 - IWCP Implementation (Davis Bacon Covered)

BOE

Historical Data Source - The historical data is from the FY98 actual costs for technical support activity. These costs have been factored to the line item level based on FY99 line item to total technical support quotients. The detailed factoring spreadsheet can be found in B776/777 FY99 Project Summary Document - Rev 0.

Item Desc - IWCP Packages Davis Bacon Covered (each). It is expected that the MAA Closure will require at least five facility modification packages to change the MAA facility centerline, closing access to the tunnels and closing access to B707.

Resources

Cost Element			Skill		Department		Curve	Quantity	Units
751	OVERTIME BASE & PRE.		G010	ADMINISTRATIVE ASSISTANTS	K399S	Building 776 Project	Linear	59.20	Hours
Factors	80	Hours	0.74 January 2000 Earned Value Factor						
751	OVERTIME BASE & PRE.		M010	FOREMEN / TEAM LEADS / GROUP	K399S	Building 776 Project	Linear	1,071.00	Hours
Factors	1071	hours OT							
751	OVERTIME BASE & PRE.		P030	BUYERS PROCUREMENT AND CON	K399S	Building 776 Project	Linear	16.00	Hours
Factors	16	Hours	1 Procurement Support						
751	OVERTIME BASE & PRE.		P170	OTHER ADMINISTRATIVE & PROFE	C210S	Facilities Mgmt & Maintenance	Linear	29.60	Hours
Factors	40	hours per package	0.74 January 2000 Earned Value Factor						
751	OVERTIME BASE & PRE.		T050	RADIATION CONTROL TECHNOLOGI	KD10H	776 Complex Steelworkers	Linear	29.60	Hours
Factors	40	Hours	0.74 January 2000 Earned Value Factor						
A5C	SUPPLIES		0000	NONE	K399S	Building 776 Project	Linear	5,000.00	Dollars
Factors	5000	Dollars in supplies for each DB IWCP							

Line Item SYS - Contingency And Escalation

BOE

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	897.47	Dollars
Factors	897.474 Dollars							
ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	632.66	Dollars
Factors	632.665 Dollars							

Activity ID: 1DC0112000

Description: FY01 PA Closure Activities

Cost Risk 2 Schedule Risk 3

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
C01	Modification Packages	3.00	Mod Pkgs	HC	172	516	17,079	15,318	0	32,397	8,147	40,543
P01	IWCP Implementation (Davis Bacon Covered)	2.00	IWCP Pkgs	HC	1,247	2,494	83,907	10,000	0	93,907	40,024	133,931
SYS	Contingency And Escalation	1.00	lea	EE	0	0	0	0	9,330	9,330	0	9,330
Total for Activity 1DC0112000:						3,010	100,986	25,318	9,330	135,634	48,170	183,804

Line Item C01 - Modification Packages

BOE

Historical Data Source - The historical data is from the FY98 actual costs for technical support activity. These costs have been factored to the line item level based on FY99 line item to total technical support quotients. The detailed factoring spreadsheet can be found in B776/777 FY99 Project Summary Document - Rev 0.

Item Desc - Repairs to VSS/Non-VSS systems that cannot be accomplished using a standard work package (SWP). This work requires engineering review example: Work requiring breach of Zone 1 containment. (each)

Resources

Cost Element	Skill	Department	Curve	Quantity	Units
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WBS No: 1DAC01
Activity ID: 1DC0112000

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Starts In FY *

751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KD10H	776 Complex Steelworkers	Linear	36.00	Hours
Factors	36	Hours						
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KD10H	776 Complex Steelworkers	Linear	2.16	Hours
Factors	2.16	Hours						
751	OVERTIME BASE & PRE.	E050	ENVIRONMENTAL ENGINEERS	K399S	Building 776 Project	Linear	0.50	Hours
Factors	0.5	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	K399S	Building 776 Project	Linear	5.00	Hours
Factors	5	Hours						
751	OVERTIME BASE & PRE.	P030	BUYERS PROCUREMENT AND CON	C210S	Facilities Mamt & Maintenance	Linear	6.00	Hours
Factors	6	Hours						
751	OVERTIME BASE & PRE.	P030	BUYERS PROCUREMENT AND CON	C210S	Facilities Mamt & Maintenance	Linear	0.36	Hours
Factors	0.36	Hours						
751	OVERTIME BASE & PRE.	P170	OTHER ADMINISTRATIVE & PROFE	C210S	Facilities Mamt & Maintenance	Linear	0.12	Hours
Factors	0.12	Hours						
751	OVERTIME BASE & PRE.	P170	OTHER ADMINISTRATIVE & PROFE	C210S	Facilities Mamt & Maintenance	Linear	2.00	Hours
Factors	2	Hours						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KD10H	776 Complex Steelworkers	Linear	12.54	Hours
Factors	12.539	Hours - Conversion to OT						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KD10H	776 Complex Steelworkers	Linear	2.40	Hours
Factors	2.4	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	1.08	Hours
Factors	1.08	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	18.00	Hours
Factors	18	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	18.00	Hours
Factors	18	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	1.08	Hours
Factors	1.08	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	9.00	Hours
Factors	9	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	1.08	Hours
Factors	1.08	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	36.00	Hours
Factors	36	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	18.00	Hours
Factors	18	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	2.16	Hours
Factors	2.16	Hours						
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	0.56	Hours
Factors	0.56	Hours						
A57	LATA	E110	QUALITY CONTROL ENGINEERS	K399S	Building 776 Project	Linear	480.00	Dollars
Factors	480	Dollars						
A57	LATA	P070	COST ESTIMATORS PLANNERS AN	K399S	Building 776 Project	Linear	2,544.00	Dollars
Factors	2544	Dollars						
A5C	SUPPLIES	0000	NONE	K399S	Building 776 Project	Linear	2,082.00	Dollars
Factors	2082	Dollars						

Line Item P01 - IWCP Implementation (Davis Bacon Covered)

BOE	Historical Data Source - The historical data is from the FY98 actual costs for technical support activity. These costs have been factored to the line item level based on FY99 line item to total technical support quotients. The detailed factoring spreadsheet can be found in B776/777 FY99 Project Summary Document - Rev 0.
	Item Desc - IWCP Packages Davis Bacon Covered (each). It is expected that the MAA Closure will require at least five facility modification packages to change the MAA facility centerline, closing access to the tunnels and clkosing access to B707.

Resources	Cost Element	Skill	Department	Curve	Quantity	Units
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WBS No: 1DAC01
Activity ID: 1DC0112000

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1DAC
Activity Filter *

Starts In FY *

751	OVERTIME BASE & PRE.	G010	ADMINISTRATIVE ASSISTANTS	K399S	Building 776 Project	Linear	80.00	Hours
Factors	80	Hours						
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	K399S	Building 776 Project	Linear	1,071.00	Hours
Factors	1071	hours OT						
751	OVERTIME BASE & PRE.	P030	BUYERS PROCUREMENT AND CON	K399S	Building 776 Project	Linear	16.00	Hours
Factors	16	Hours	1	Procurement Support				
751	OVERTIME BASE & PRE.	P170	OTHER ADMINISTRATIVE & PROFE	C210S	Facilities Mamt & Maintenance	Linear	40.00	Hours
Factors	40	hours per package						
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KD10H	776 Complex Steelworkers	Linear	40.00	Hours
Factors	40	Hours						
A5C	SUPPLIES	0000	NONE	K399S	Building 776 Project	Linear	5,000.00	Dollars
Factors	5000	Dollars in supplies for each DB IWCP						

Line Item SYS - Contingency And Escalation

BOE

Resources

Cost Element	Skill	Department	Curve	Quantity	Units
CON CONTINGENCY	0000 NONE	ZDEPT No Department	Linear	5,661.67	Dollars
Factors	5661.67	Dollars			
ESC ESCALATION	0000 NONE	ZDEPT No Department	Linear	3,668.80	Dollars
Factors	3668.8	Dollars			

Activity ID: 1DP0002011 Description: FY-00 SNM Holdup Scans

Cost Risk 2 Schedule Risk 3

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
1	SNM Holdup Scans	250.00	each	HC	1	282	8,481	0	0	8,481	4,127	12,608
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	81	81	0	81
Total for Activity 1DP0002011:						282	8,481	0	81	8,562	4,127	12,689

Line Item 1 - SNM Holdup Scans

BOE

Historical Data Source - The historical data is in the FY98 workplan. The adjustments are based on actual costs in WAD35 for scanning 87 areas in FY99.

Item Desc - Perform safeguards measurements (high and low gamma scans) of 250 wall-to-wall scans in B776/777 and 50 verification scans. These scans verify that SNM holdup has been removed from the gloveboxes planned for holdup removal.

Resources

Cost Element			Skill		Department		Curve	Quantity	Units		
751	OVERTIME BASE & PRE.		P170	OTHER ADMINISTRATIVE & PROFE		S100S	SSOC Salaried	Linear	1.04	Hours	
Factors	1	Hours	1.5	hrs. per scan team member		2	team crew		1.1519	Ratio ST to OT	
	0.3	January 2000 Earned Value Factor									
751	OVERTIME BASE & PRE.		T050	RADIATION CONTROL TECHNOLIGI		KD10H	776 Complex Steelworkers	Linear	0.05	Hours	
Factors	0.1	10% of scanner time for overtime		1.5	hours per scan team member		1	0.3	January 2000 Earned Value Factor		
751	OVERTIME BASE & PRE.		T060	D&D HAZ REDUC TECH / RISK RED		KD10H	776 Complex Steelworkers	Linear		0.05	Hours
Factors	0.1	10% of scanners time for Process				1.5	hours per scan		0.3	January 2000 Earned Value Factor	

Line Item SYS - Contingency And Escalation

BOE

Resources

Cost Element	Skill	Department	Curve	Quantity	Units
CON CONTINGENCY	0000 NONE	ZDEPT No Department	Linear	47.70	Dollars
Factors	47.6997	Dollars			
ESC ESCALATION	0000 NONE	ZDEPT No Department	Linear	33.63	Dollars
Factors	33.6254	Dollars			

Activity ID: 1DP0102010 Description: B776/777 MAA Closure Execution Activities

Cost Risk 2 Schedule Risk 3

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
C01	Modification Packages	3.00	Mod Pkgs	HC	127	382	12,638	11,335	0	23,974	6,167	30,141
P01	IWCP Implementation (Davis Bacon Covered)	2.00	IWCP Pkgs	HC	923	1,846	62,091	7,400	0	69,491	30,301	99,792
Total for Activity 1DP0102010:						2,227	74,729	18,735	0	93,465	36,468	129,933

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Line Item C01 - Modification Packages

BOE Historical Data Source - The historical data is from the FY98 actual costs for technical support activity. These costs have been factored to the line item level based on FY99 line item to total technical support quotients. The detailed factoring spreadsheet can be found in B776/777 FY99 Project Summary Document - Rev 0.

Item Desc - Repairs to VSS/Non-VSS systems that cannot be accomplished using a standard work package (SWP). This work requires engineering review example: Work requiring breach of Zone 1 containment. (each)

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
	751	OVERTIME BASE & PRE.	C020 ELECTRICIANS	C211S Electrical Maintenance	Linear	26.64	Hours
Factors	36	Hours	0.74 January 2000 Earned Value Factor				
	751	OVERTIME BASE & PRE.	C020 ELECTRICIANS	C211S Electrical Maintenance	Linear	1.60	Hours
Factors	2.16	Hours	0.74 January 2000 Earned Value Factor				
	751	OVERTIME BASE & PRE.	E050 ENVIRONMENTAL ENGINEERS	K399S Building 776 Project	Linear	0.37	Hours
Factors	0.5	Hours	0.74 January 2000 Earned Value Factor				
	751	OVERTIME BASE & PRE.	M010 FOREMEN / TEAM LEADS / GROUP	K399S Building 776 Project	Linear	3.70	Hours
Factors	5	Hours	0.74 January 2000 Earned Value Factor				
	751	OVERTIME BASE & PRE.	P030 BUYERS PROCUREMENT AND CON	C210S Facilities Mamt & Maintenance	Linear	4.44	Hours
Factors	6	Hours	0.74 January 2000 Earned Value Factor				
	751	OVERTIME BASE & PRE.	P030 BUYERS PROCUREMENT AND CON	C210S Facilities Mamt & Maintenance	Linear	0.27	Hours
Factors	0.36	Hours	0.74 January 2000 Earned Value Factor				
	751	OVERTIME BASE & PRE.	P170 OTHER ADMINISTRATIVE & PROFE	C210S Facilities Mamt & Maintenance	Linear	1.48	Hours
Factors	2	Hours	0.74 January 2000 Earned Value Factor				
	751	OVERTIME BASE & PRE.	P170 OTHER ADMINISTRATIVE & PROFE	C210S Facilities Mamt & Maintenance	Linear	0.09	Hours
Factors	0.12	Hours	0.74 January 2000 Earned Value Factor				
	751	OVERTIME BASE & PRE.	T050 RADIATION CONTROL TECHNOLOGI	KD10H 776 Complex Steelworkers	Linear	9.28	Hours
Factors	12.539	Hours - Conversion to OT	0.74 January 2000 Earned Value Factor				
	751	OVERTIME BASE & PRE.	T050 RADIATION CONTROL TECHNOLOGI	KD10H 776 Complex Steelworkers	Linear	1.78	Hours
Factors	2.4	Hours	0.74 January 2000 Earned Value Factor				
	751	OVERTIME BASE & PRE.	T060 D&D HAZ REDUC TECH / RISK RED	KD10H 776 Complex Steelworkers	Linear	13.32	Hours
Factors	18	Hours	0.74 January 2000 Earned Value Factor				
	751	OVERTIME BASE & PRE.	T060 D&D HAZ REDUC TECH / RISK RED	KD10H 776 Complex Steelworkers	Linear	0.80	Hours
Factors	1.08	Hours	0.74 January 2000 Earned Value Factor				
	751	OVERTIME BASE & PRE.	T060 D&D HAZ REDUC TECH / RISK RED	KD10H 776 Complex Steelworkers	Linear	6.66	Hours
Factors	9	Hours	0.74 January 2000 Earned Value Factor				
	751	OVERTIME BASE & PRE.	T060 D&D HAZ REDUC TECH / RISK RED	KD10H 776 Complex Steelworkers	Linear	0.80	Hours
Factors	1.08	Hours	0.74 January 2000 Earned Value Factor				
	751	OVERTIME BASE & PRE.	T060 D&D HAZ REDUC TECH / RISK RED	KD10H 776 Complex Steelworkers	Linear	26.64	Hours
Factors	36	Hours	0.74 January 2000 Earned Value Factor				
	751	OVERTIME BASE & PRE.	T060 D&D HAZ REDUC TECH / RISK RED	KD10H 776 Complex Steelworkers	Linear	13.32	Hours
Factors	18	Hours	0.74 January 2000 Earned Value Factor				
	751	OVERTIME BASE & PRE.	T060 D&D HAZ REDUC TECH / RISK RED	KD10H 776 Complex Steelworkers	Linear	1.60	Hours
Factors	2.16	Hours	0.74 January 2000 Earned Value Factor				
	751	OVERTIME BASE & PRE.	T060 D&D HAZ REDUC TECH / RISK RED	KD10H 776 Complex Steelworkers	Linear	0.41	Hours
Factors	0.56	Hours	0.74 January 2000 Earned Value Factor				
	751	OVERTIME BASE & PRE.	T060 D&D HAZ REDUC TECH / RISK RED	KD10H 776 Complex Steelworkers	Linear	13.32	Hours
Factors	18	Hours	0.74 January 2000 Earned Value Factor				
	751	OVERTIME BASE & PRE.	T060 D&D HAZ REDUC TECH / RISK RED	KD10H 776 Complex Steelworkers	Linear	0.80	Hours
Factors	1.08	Hours	0.74 January 2000 Earned Value Factor				
	A57	LATA	E110 QUALITY CONTROL ENGINEERS	K399S Building 776 Project	Linear	355.20	Dollars
Factors	480	Dollars	0.74 January 2000 Earned Value Factor				
	A57	LATA	P070 COST ESTIMATORS PLANNERS AN	K399S Building 776 Project	Linear	1,882.56	Dollars
Factors	2544	Dollars	0.74 January 2000 Earned Value Factor				
	A5C	SUPPLIES	0000 NONE	K399S Building 776 Project	Linear	1,540.68	Dollars
Factors	2082	Dollars	0.74 January 2000 Earned Value Factor				

WBS No: 1DAC01
Activity ID: 1DP0102010

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1DAC
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Line Item P01 - IWCP Implementation (Davis Bacon Covered)

BOE Historical Data Source - The historical data is from the FY98 actual costs for technical support activity. These costs have been factored to the line item level based on FY99 line item to total technical support quotients. The detailed factoring spreadsheet can be found in B776/777 FY99 Project Summary Document - Rev 0.

Item Desc - IWCP Packages Davis Bacon Covered (each). It is expected that the MAA Closure will require at least five facility modification packages to change the MAA facility centerline, closing access to the tunnels and closing access to B707.

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
751	OVERTIME BASE & PRE.	G010	ADMINISTRATIVE ASSISTANTS	K399S Building 776 Project	Linear	59.20	Hours
Factors	80	Hours	0.74	January 2000 Earned Value Factor			
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	K399S Building 776 Project	Linear	792.54	Hours
Factors	1071	hours OT	0.74	January 2000 Earned Value Factor			
751	OVERTIME BASE & PRE.	P030	BUYERS PROCUREMENT AND CON	K399S Building 776 Project	Linear	11.84	Hours
Factors	16	Hours	1	Procurement Support	0.74	January 2000 Earned Value Factor	
751	OVERTIME BASE & PRE.	P170	OTHER ADMINISTRATIVE & PROFE	C210S Facilities Mamt & Maintenance	Linear	29.60	Hours
Factors	40	hours per package	0.74	January 2000 Earned Value Factor			
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KD10H 776 Complex Steelworkers	Linear	29.60	Hours
Factors	40	Hours	0.74	January 2000 Earned Value Factor			
A5C	SUPPLIES	0000	NONE	K399S Building 776 Project	Linear	3,700.00	Dollars
Factors	5000	Dollars in supplies for each DB IWCP	0.74	January 2000 Earned Value Factor			

WBS No: 1DAC02 Title: B776/777 Deactivation
Activity ID: 1DHD500D11 Description: Drain 5 hot and 2 cold Ancillary Piping Systems

Activity ID: 1DHD500D11		Description: Drain 5 hot and 2 cold Ancillary Piping Systems						Cost Risk		2	Schedule Risk		3
Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost	
5HD500	Drain Ancillary Piping Systems	7.00	each	EE	170	1,190	32,701	44,492	0	77,193	15,958	93,151	
TTANKS	Drain Remaining Process Tanks	1.00	each	EE	1,800	1,800	43,456	0	0	43,456	21,206	64,662	
Total for Activity 1DHD500D11:						2,990	76,157	44,492	0	120,649	37,165	157,813	

Line Item 5HD500 - Drain Ancillary Piping Systems

BOE Estimators Experience - Estimators experience based on past IWCP's with similar work characteristics.

Experience Item Desc - Drain oils and solutions from ancillary piping associated with 19 low-level oil systems: The Isostatic Press, two FBI hydraulic tanks, two supercompactor hydraulic tanks, two fluid-bed incinerator pilot hydraulic tanks, two room 459A oil reservoirs, GB 602 blanking press, briquetting press, machine coolant supply, T-base lathes hydraulic controllers and the Excelllo lathe hydraulic reservoirs, a square tank with raschig rings and its ancillary equipment, Glovebox 494/495 hydraulic system, process cooling system, glovebox chill water system, and process cooling & hot water system.

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KD10H 776 Complex Steelworkers	Back Loaded	15.00	Hours
Factors	0.5	Straight time	30	hours per system			
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	R100S RMRS Salaried	Back Loaded	10.00	Hours
Factors	0.5	Hours ST	20	hours per system			
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLOGI	KD10H 776 Complex Steelworkers	Linear	20.00	Hours
Factors	0.5	Straight time	40	hours per system			
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KD10H 776 Complex Steelworkers	Back Loaded	40.00	Hours
Factors	0.5	Straight Time	80	hours per system			
751	OVERTIME BASE & PRE.	C020	ELECTRICIANS	KD10H 776 Complex Steelworkers	Linear	15.00	Hours
Factors	1	Hours	30	hours per system	0.5	1/2 time on OT	
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	R100S RMRS Salaried	Linear	10.00	Hours
Factors	1	Hours	20	hours per system	0.5	1/2 time on OT	
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KD10H 776 Complex Steelworkers	Linear	20.00	Hours
Factors	1	Hours	40	hours per system	0.5	1/2 time on OT	
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H 776 Complex Steelworkers	Linear	40.00	Hours
Factors	80	hours per system	0.5	1/2 time on OT			
A5C	SUPPLIES	0000	NONE	K399S Building 776 Project	Linear	4,000.00	Dollars
Factors	1	Dollars	4000	dollars per system for supplies			

WBS No: 1DAC02
Activity ID: 1DHD500D11

Rockv Flats Closure Project
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A5H	SUBCONTRACTED SRVS	E110	QUALITY CONTROL ENGINEERS	K399S	Building 776 Project	Back Loaded	456.00	Dollars
Factors	1 Dollars	60	dollars/hour RMRS Corporate	8	hours (quality) per system			
	0.95	January 2000 Earned Value Factor						
A5H	SUBCONTRACTED SRVS	P160	TECHNICAL WRITERS AND EDITOR	K399S	Building 776 Project	Back Loaded	1,900.00	Dollars
Factors	40 hours (planning) RMRS Corporate			50	dollars/hour			
	0.95	January 2000 Earned Value Factor						

Line Item TTANKS - Drain Remaining Process Tanks

BOE Estimators Experience - Estimators experience based on past IWCP's with similar work characteristics.
Experience Item Desc - Drain oils and solutions from ancillary piping associated with 19 low-level oil systems: The Isostatic Press, two FBI hydraulic tanks, two supercompactor hydraulic tanks, two fluid-bed incinerator pilot hydraulic tanks, two room 459A oil reservoirs, GB 602 blanking press, briquetting press, machine coolant supply, T-base lathes hydraulic controllers and the Excello lathe hydraulic reservoirs, a square tank with raschig rings and its ancillary equipment, Glovebox 494/495 hydraulic system, process cooling system, glovebox chill water system, and process cooling & hot water system.

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	R100S	RMRS Salaried	Linear	135.00	Hours
Factors	1	Foreman	15	davs	9	hours ST per dav			
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLOGI	KD10H	776 Complex Steelworkers		Linear	135.00	Hours
Factors	1	RCTs	15	davs	9	hours St per dav			
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers		Linear	1,080.00	Hours
Factors	8	D&D workers	15	davs	9	hours ST per dav			
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	R100S	RMRS Salaried		Linear	45.00	Hours
Factors	1	Foreman	15	davs	3	hours OT per dav			
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KD10H	776 Complex Steelworkers		Linear	45.00	Hours
Factors	1	RCTs	15	davs	3	hours OT per dav			
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers		Linear	360.00	Hours
Factors	8	D&D workers	15	davs	3	hours OT per dav			

Activity ID: 1DHD500T05 Description: FY-00 Drain SRV Tanks (SR3, 4 & 5)

Cost Risk 2 Schedule Risk 3

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
SRVTANK1	Drain SRV Tanks	1.00	each	EE	3.960	3.960	95,503	0	0	95,503	46,605	142,108
Total for Activity 1DHD500T05:						3.960	95,503	0	0	95,503	46,605	142,108

Line Item SRVTANK1 - Drain SRV Tanks

BOE Estimators Experience - Estimators experience based on past IWCP's with similar work characteristics.
Experience Item Desc - Drain oils and solutions from ancillary piping associated with 19 low-level oil systems: The Isostatic Press, two FBI hydraulic tanks, two supercompactor hydraulic tanks, two fluid-bed incinerator pilot hydraulic tanks, two room 459A oil reservoirs, GB 602 blanking press, briquetting press, machine coolant supply, T-base lathes hydraulic controllers and the Excello lathe hydraulic reservoirs, a square tank with raschig rings and its ancillary equipment, Glovebox 494/495 hydraulic system, process cooling system, glovebox chill water system, and process cooling & hot water system.

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	R100S	RMRS Salaried	Linear	270.00	Hours
Factors	1	Foreman	30	days	9	hours ST per day			
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLOGI	KD10H	776	Complex Steelworkers	Linear	540.00	Hours
Factors	2	RCTs	30	days	9	hours St per day			
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776	Complex Steelworkers	Linear	2,160.00	Hours
Factors	8	D&D workers	30	days	9	hours ST per day			
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	R100S	RMRS Salaried		Linear	90.00	Hours
Factors	1	Foreman	30	days	3	hours OT per day			
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLOGI	KD10H	776	Complex Steelworkers	Linear	180.00	Hours
Factors	2	RCTs	30	days	3	hours OT per day			
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776	Complex Steelworkers	Linear	720.00	Hours
Factors	8	D&D workers	30	days	3	hours OT per day			

Activity ID: 1DHD500T10 Description: Drn Tks T360.T370.T344 & T345 to RCRA Stable

Cost Risk 2 Schedule Risk 3

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
TTANKS	Drain Remaining Process Tanks	1.00	each	EE	1.980	1.980	47,751	0	0	47,751	23,303	71,054

WBS No: 1DAC02
Activity ID: 1DHD500T10

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1DAC
Activity Filter *

Starts In FY *

Total for Activity 1DHD500T10:

1.980	47.751	0	0	47.751	23.303	71.054
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Line Item TTANKS - Drain Remaining Process Tanks

BOE Estimators Experience - Estimators experience based on past IWCP's with similar work characteristics.
Experience Item Desc - Drain oils and solutions from ancillary piping associated with 19 low-level oil systems: The Isostatic Press, two FBI hydraulic tanks, two supercompactor hydraulic tanks, two fluid-bed incinerator pilot hydraulic tanks, two room 459A oil reservoirs, GB 602 blanking press, briquetting press, machine coolant supply, T-base lathes hydraulic controllers and the Excello lathe hydraulic reservoirs, a square tank with raschig rings and its ancillary equipment, Glovebox 494/495 hydraulic system, process cooling system, glovebox chill water system, and process cooling & hot water system.

Resources	Cost Element	Skill	Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	M010 FOREMEN / TEAM LEADS / GROUP	R100S RMRS Salaried	Linear	135.00	Hours
Factors	1 Foreman	15 days	9 hours ST per day			
750	STRAIGHT TIME BASE	T050 RADIATION CONTROL TECHNOLOGI	KD10H 776 Complex Steelworkers	Linear	270.00	Hours
Factors	2 RCTs	15 days	9 hours St per day			
750	STRAIGHT TIME BASE	T060 D&D HAZ REDUC TECH / RISK RED	KD10H 776 Complex Steelworkers	Linear	1,080.00	Hours
Factors	8 D&D workers	15 days	9 hours ST per day			
751	OVERTIME BASE & PRE.	M010 FOREMEN / TEAM LEADS / GROUP	R100S RMRS Salaried	Linear	45.00	Hours
Factors	1 Foreman	15 days	3 hours OT per day			
751	OVERTIME BASE & PRE.	T050 RADIATION CONTROL TECHNOLOGI	KD10H 776 Complex Steelworkers	Linear	90.00	Hours
Factors	2 RCTs	15 days	3 hours OT per day			
751	OVERTIME BASE & PRE.	T060 D&D HAZ REDUC TECH / RISK RED	KD10H 776 Complex Steelworkers	Linear	360.00	Hours
Factors	8 D&D workers	15 days	3 hours OT per day			

Activity ID: 1DHD599R20 Description: FY-00 Remove Sources from Rooms

Cost Risk 2 Schedule Risk 3

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
5HD500R20	Source Removal of Rooms	1.00	each	EE	729	729	15.541	40.000	0	55.541	7.562	63.104
Room Deact	Room Deactivation Activities	41.00	con	EE	131	5,371	110.345	0	0	110.345	53.693	164.038
SYS	Contingency And Escalation	1.00	lea	EE	0	0	0	0	1.467	1.467	0	1.467
Total for Activity 1DHD599R20:						6.100	125.886	40.000	1.467	167.353	61.256	228.608

Line Item 5HD500R20 - Source Removal of Rooms

BOE Estimators Experience -
Experience Item Desc - This activity will remove the unused radioactive sources from the rooms. The majority of these sources are still contained in the combo monitors that have been taken out of service. It is estimated that 1,500 sources will be removed. This activity does not include removal of sources from the equipment that is still operational (i.e. SAAMs and CAAMs)

Resources	Cost Element	Skill	Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	M010 FOREMEN / TEAM LEADS / GROUP	R100S RMRS Salaried	Linear	81.00	Hours
Factors	1 foreman	9 days	9 hours per day ST			
750	STRAIGHT TIME BASE	T050 RADIATION CONTROL TECHNOLOGI	KD10H 776 Complex Steelworkers	Linear	162.00	Hours
Factors	2 RCTs	9 hours per day ST	9 days			
750	STRAIGHT TIME BASE	T060 D&D HAZ REDUC TECH / RISK RED	KD10H 776 Complex Steelworkers	Linear	486.00	Hours
Factors	6 Process Specialist	9 hours per day ST	9 days			
A5H	SUBCONTRACTED SRVS	0000 NONE	K399S Building 776 Project	Linear	40,000.00	Dollars
Factors	40000 dollars for J.L. Shepard contract to					

Line Item Room Deact - Room Deactivation Activities

BOE Estimators Experience - Costs are based on the assumed level of remaining items requiring removal from B776/777 under phase I decommissioning (non-IWCP driven decommissioning work). The basis was derived from the cost estimating workshop at Jeffco Airport in May, 1998.

Experience Item Desc - Perform phase I decommissioning work that is not driven by the IWCP process. Examples include removal of all equipment/property that isn't physically attached or permanently installed, removal of all miscellaneous and combustible items. After Phase I decommissioning is complete, the only items that will remain are those that are bolted, welded, hard-wired or otherwise permanently installed and require an IWCP package for completion.

Resources	Cost Element	Skill	Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020 ELECTRICIANS	KD10H 776 Complex Steelworkers	Linear	5.00	Hours
Factors	5 Straight time hours	1 container per 2 days				
750	STRAIGHT TIME BASE	T050 RADIATION CONTROL TECHNOLOGI	KD10H 776 Complex Steelworkers	Linear	18.00	Hours
Factors	18 Straight time hours	1 container per 2 days	1 RCT			

WBS No: 1DAC02
Activity ID: 1DHD599R20

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Activity Filter * Starts In FY *

750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	108.00	Hours
Factors	18		Straight Time hours	1	container per 2 days	6	D&D Workers	

Line Item SYS - Contingency And Escalation
BOE

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	860.35	Dollars
	Factors 860.351 Dollars								
	ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	606.50	Dollars
	Factors 606.495 Dollars								

Report Totals:

Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
23.342	623.690	149.881	12.409	785.979	302.867	1.088.846